

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TIP 051 PCT	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below</small>	
International application No. PCT/EP2004/052382	International filing date (day/month/year) 30/09/2004	(Earliest) Priority Date (day/month/year) 30/09/2003
Applicant TIBOTEC PHARMACEUTICALS LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/062382

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to methods for the preparation of benzoxazole sulfonamide compounds of formula (9) as well as novel intermediates of formula (6) for use in said method. More in particular the invention relates to methods for the Preparation of 2-amino-benzoxazole sulfonamide compounds which make use of 2-mercapto-benzoxazole sulfonamide intermediates, more in particular methods employing the intermediate 1-Benzyl-2-hydroxy-3-'isobutyl-(2-methylsulfanyl-benzoxazole-6-sulfonyl)-amino-1-propyl)-carbamic ester, and to methods amenable to industrial scaling up. Said benzoxazole sulfonamide compounds are particularly useful as HIV protease inhibitors.

The substituents are defined in the claims.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/052382

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D263/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category * Citation of document, with indication, where appropriate, of the relevant passages

Relevant to claim No.

A WO 02/092595 A (TIBOTEC PHARMA (IE))
21 November 2002 (2002-11-21)
cited in the application
* scheme A, page 18 *

1-20

A WO 01/77092 A (SAMSUNG (KR))
18 October 2001 (2001-10-18)
* process 2, page 14 *

1-20

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

C document referring to an oral disclosure, use, exhibition or other means

**T* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be understood to involve an inventive step when the document is taken alone

**Y* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

S document member of the same patent family

Date of the actual completion of the international search

10 December 2004

Date of mailing of the international search report

22/12/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/052382

FCI/ET/2004/052362

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02092595	A	21-11-2002	BR 0209594 A	30-03-2004
			CA 2444895 A1	21-11-2002
			CZ 20033290 A3	12-05-2004
			EE 200300547 A	16-02-2004
			WO 02092595 A1	21-11-2002
			EP 1387842 A1	11-02-2004
			HU 0400438 A2	30-08-2004
			SK 14902003 A3	07-07-2004
			US 2004106661 A1	03-06-2004
WO 0177092	A	18-10-2001	KR 2001099525 A	09-11-2001
			KR 2001099526 A	09-11-2001
			KR 2001090922 A	22-10-2001
			AU 4888401 A	23-10-2001
			CA 2372352 A1	18-10-2001
			CN 1366524 T	28-08-2002
			EP 1208092 A1	29-05-2002
			JP 2003530389 T	14-10-2003
			WO 0177092 A1	18-10-2001
			US 2002169314 A1	14-11-2002

Form PCT/ISA/210 (patent family annex) (January 2004)